

Course Specification Student Version

Course Title:	Medical Imaging	
Course Code:	MDI 408	
Department:	Basic Medical Sciences	
Program:	Bachelor of Medicine and Surgery	
College:	Vision College in Riyadh	
Institution:	Vision College in Riyadh	
Revised:	July 2025	





A. Course Identification

- 1. Credit hours: 4 (2+1+1)
- 2. Level/year at which this course is offered: Level 8/Year 4
- 3. Pre-requisites for this course (if any): RES305,HPS305,MSS306,ENS306,GIS306,NSC307,UGS307,FMT307,CVS305
- 4. Co-requisites for this course (if any): None

B. Teaching Methods

1	Interactive lectures
2	Skill lab clinical sessions
3	PBL

C. Course Description and Objectives

1. Course Description

The course is designed to prepare the student for the study of the different imaging modalities used for diagnostic purposes, the differences between these modalities and their abilities to demonstrate the anatomical structures in all body systems with regards to the advantages and disadvantages of each.

2. Course Main Objective

The goal of this course is to explain the normal structure and function of the musculoskeletal and the pathogenesis of various diseases and the ways in which they affect this system, with reference to the pharmacological principles of drugs relevant to management of this diseases.

3. Course Objectives

By the end of this course, students should be able to:

- Apply knowledge of anatomical structures to analyze and interpret clinical case studies of medical imaging.
- Explain and interprete the principles of essential clinical investigations.
- Apply personal judgments for analysis, problem-solving and clinical reasoning
- Demonstrate effective debating and probing techniques while interacting with colleagues during PBL or simulated patients in OSCE.
- Demonstrate positive group dynamics and teamwork skills during PBL, Seminar and OSCE.
- Create a self-development plan with milestones





D. Course Content

No.	List of Topics	
1	Introduction to radiation physics	
2	Extremities Imaging	
3	Head & Neck, spine and brain Imaging	
4	Chest Imaging	
5	Abdomen and Pelvis Imaging	
6	Contrast radiology	
7	Woman radiology	
8	Basis of ultrasound	
9	Common radiological abnormalities	

E. Assessment Tools

#	Assessment task	Percentage of Total Assessment Score
1	Midterm Exam	20%
2	Continuous Assessment (quizzes&seminars)	20%
3	Final Written Exam	20%
4	OSPE	20%
	Total	100%





F. Learning Resources

Essential References	Far Physics for diagnostic imaging; Roberts and wiliam; Elsiver 2 ^d edition (2008) Anatomy for diagnostic imaging; Stephanie Rayn; Elsiver 3 rd edition (2013) Diagnostic imaging Andrea; john willy 7 th edition (2013) •Betram G Katzung, ed. Basic and Clinical Pharmacology, 10th edn. Lange. 2004.	
Supportive References	Snell RS. Clinical Anatomy for Medical Student, 7th edn., Lippincott, Williams & Wilkins, 2004.	
Electronic Materials	 http://eradiology.bidmc.harvard.edu/ http://www.med-u.org/core http://www.meddean.luc.edu/lumen/MedEd/Radio/curriculum/radiology-curric1 f.htm http://www.learningradiology.com/medstudents/medstudtoc.htm http://radiologymasterclass.co.uk/ 	
Other Learning Materials	None	

